Ingalls Shipbuilding

January 15, 1990

P.O. Box 149 Pascagoula, Mississippi 39568-0149

601-935-1122

90-90000037) Thru 90-90000039

Document Processing Center
Office of Toxic Substances TS-790
U. S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

Attention: CAIR Reporting Office

Please find enclosed three (3) CAIR reports covering the following trade name products which were listed in the Wednesday, June 14, 1989 Federal Register.

EN-1554 Part A

EN-1554 Part B

EN-6 Part A

Also enclosed are the Manufacturers Material Safety Data Sheets for the trade name products listed above.

Very truly yours,

INGALLS SHIPBUILDING, INC.

P. L. Price

Chief Environmental Engineer

PLP:ps

ENCL:

90 JAN 16 AM 9: 13

CONTAINS NO CBL

# SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION

Manufacturer	1.01 This Comprehensive Assessment Information Rule (CAIR) Reporting Form has been completed in response to the Federal Register Notice of [0]6] [1]4] [3]9 year mo. day year Register, list the CAS No [0]0]0]5]6]4]-[8]4]-[9] b. If a chemical substance CAS No. is not provided in the Federal Register, list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the Federal Register.  (i) Chemical name as listed in the rule (iii) Name of mixture as listed in the rule (iii) Trade name as listed in the rule (iii) Trade name as listed in the rule (iii) Trade name as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category.  Name of category as listed in the rule [1] Name of chemical substance [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]			THE PROCESSOR INFORMATION
COMPleted in response to the Federal Register Notice of	COMPLETE OF TRESPONSE to the Federal Register Notice of	PAR	T A	GENERAL REPORTING INFORMATION
COMPleted in response to the Federal Register Notice of	COMPLETE OF TRESPONSE to the Federal Register Notice of	1.0	1 T	nis Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
a. If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal  Register, list the CAS No	a. If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal Register, list the CAS No	CBI	co	ompleted in response to the Federal Register Notice of [0]6   [1]4   8   9
b. If a chemical substance CAS No. is not provided in the Federal Register, list either (1) the chemical name, (i) the mixture name, or (iii) the trade name of the chemical substance as provided in the Federal Register.  (i) Chemical name as listed in the rule  (ii) Name of mixture as listed in the rule  (iii) Trade name as listed in the rule  (iiii) Trade name as listed in the rule  (iii) Name of chemical category is provided in the Federal Register.  (iii) Trade name as listed in the rule  (iii) Trade name of the name of	Negister, list the CAS No	[_		If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
either (1) the chemical name, (11) the mixture name, or (111) the trade name of the chemical substance as provided in the Federal Register.  (i) Chemical name as listed in the rule  (ii) Name of mixture as listed in the rule  (iii) Trade name as listed in the rule  (iiii) Trade name as listed in the rule  (iiii) Trade name as listed in the rule	either (1) the chemical name, (ii) the mixture name, or (111) the trade name of the chemical substance as provided in the Federal Register.  (i) Chemical name as listed in the rule  (ii) Name of mixture as listed in the rule  (iii) Trade name as listed in the rule  (iiii) Trade name as listed in the rule  Name of category as listed in the rule  (iiii) Trade name as listed in the rule  (iiii) Trade name as listed in the rule			Register, list the CAS No 0 0 0 0 5 8 4 1-10 14 1-10
(i) Chemical name as listed in the rule  (iii) Name of mixture as listed in the rule  (iii) Trade name as listed in the rule  (iii) Trade name as listed in the rule  2. If a chemical category is provided in the Federal Register, report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.  Name of category as listed in the rule  CAS No. of chemical substance	(i) Chemical name as listed in the rule  (ii) Name of mixture as listed in the rule  (iii) Trade name as listed in the rule  (iii) Trade name as listed in the rule  EN-1554 PART A  c. If a chemical category is provided in the Federal Register, report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.  Name of category as listed in the rule  CAS No. of chemical substance		b.	either (i) the chemical page (ii) not provided in the Federal Register lies
(iii) Trade name as listed in the rule	(iii) Trade name as listed in the rule			(i) Chemical name as listed in the rule
c. If a chemical category is provided in the Federal Register, report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.  Name of category as listed in the rule	c. If a chemical category is provided in the Federal Register, report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.  Name of category as listed in the rule			(ii) Name of mixture as listed in the rule
c. If a chemical category is provided in the Federal Register, report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.  Name of category as listed in the rule  CAS No. of chemical substance  Name of chemical substance  Identify your reporting status under CAIR by circling the appropriate response(s).  Manufacturer  Importer  Processor  X/P manufacturer reporting for customer who is a processor  X/P processor reporting for customer who is a processor  SEPA-OTS  ODD63b299Z  90-90000037	c. If a chemical category is provided in the Federal Register, report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.  Name of category as listed in the rule  CAS No. of chemical substance  Name of chemical substance  Identify your reporting status under CAIR by circling the appropriate response(s).  Manufacturer  Importer  Processor  X/P manufacturer reporting for customer who is a processor  X/P processor reporting for customer who is a processor  SEPA-OTS  ODD5362997  90-90000037			(iii) Trade name as listed in the rule EN-1554 PART A
Name of category as listed in the rule  CAS No. of chemical substance	Name of category as listed in the rule  CAS No. of chemical substance		c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are
Name of chemical substance	CAS No. of chemical substance			Name of category as listed in the rule
Name of chemical substance  1.02 Identify your reporting status under CAIR by circling the appropriate response(s).  CBI Manufacturer	Name of chemical substance  1.02 Identify your reporting status under CAIR by circling the appropriate response(s).  CBI Manufacturer			CAS No. of chemical substance
Importer	Importer			Name of chemical substance
Processor	Processor	1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s)
X/P manufacturer reporting for customer who is a processor	X/P manufacturer reporting for customer who is a processor		Tmp	ntacturer
X/P manufacturer reporting for customer who is a processor	X/P manufacturer reporting for customer who is a processor	,	Timpe	free
X/P manufacturer reporting for customer who is a processor	X/P manufacturer reporting for customer who is a processor		Proc	cessor
######################################	######################################		X/P	manufacturer reporting for customer who is a processor
90-90000037	90-90000037		X/P	processor reporting for customer who is a processor
90-90000037	90-90000037			# EPA-OTS
90-900000 37				
	] Mark (X) this box if you attach a continuation of			90-900000 37

•	
1.0 CBI	in the above-listed Federal Register Notice?
[_	Yes Go to question 1.
	No
1.0 CBI	under a trade name(s) different than that listed in the Federal Register Notice  Circle the appropriate response.  Yes
1.05 CBI	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name
[_]	itade name
	Is the trade name product a mixture? Circle the appropriate response.
	Yes
1.06 CBI	Certification The person who is responsible for the completion of this form must sign the certification statement below:
 [_]	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."
	P. L. PRICE  NAME  NAME  SIGNATURE  DATE STONED
	CHIEF ENVIRONMENTAL ENGINEER (601) 935 - 3991 TITLE TELEPHONE NO.
	ark (X) this box if you attach a continuation sheet.
	- Continuation sneet.

<u>CBI</u>	within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.  "I hereby certify that, to the best of my knowledge and belief, all required				
	information which a have not it to EPA within the past 3 years period specified in the rule.	s and is cu	this CAIR Reporting Farrent, accurate, and c	form has been submitted complete for the time	
	NAME		SIGNATURE	DATE SIGNED	
	TITLE	_ (	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION	
1.08	CBI Certification If you hat certify that the following sta				
CBI	those confidentiality claims w				
<u>CBI</u>	"My company has taken measures and it will continue to take to been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial prinformation is not publicly as would cause substantial harm to	which you had be not	tave asserted.  It the confidentiality Ires; the information i persons (other than go overy based on a showin without my company's sewhere; and disclosur	s not, and has not evernment bodies) by ag of special need in consent; the se of the information	
	"My company has taken measures and it will continue to take to been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial prinformation is not publicly as	which you had be not	tave asserted.  It the confidentiality Ires; the information i persons (other than go overy based on a showin without my company's sewhere; and disclosur	s not, and has not evernment bodies) by ag of special need in consent; the se of the information	
	"My company has taken measures and it will continue to take to been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial prinformation is not publicly as would cause substantial harm to	which you had be not	t the confidentiality ares; the information in persons (other than goovery based on a showing without my company's sewhere; and disclosuring's competitive positions.	s not, and has not overnment bodies) by ag of special need in consent; the se of the information ion."	
	"My company has taken measures and it will continue to take to been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial prinformation is not publicly as would cause substantial harm to NAME	which you had be not	t the confidentiality ares; the information in persons (other than go overy based on a showing without my company's sewhere; and disclosurany's competitive positions of the street of t	s not, and has not overnment bodies) by ag of special need in consent; the se of the information ion."	
	"My company has taken measures and it will continue to take to been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial prinformation is not publicly as would cause substantial harm to NAME	which you had be not	t the confidentiality ares; the information in persons (other than go overy based on a showing without my company's sewhere; and disclosurany's competitive positions of the street of t	s not, and has not overnment bodies) by ag of special need in consent; the se of the information ion."	
	"My company has taken measures and it will continue to take to been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial prinformation is not publicly as would cause substantial harm to NAME	which you had be not	t the confidentiality ares; the information in persons (other than go overy based on a showing without my company's sewhere; and disclosurany's competitive positions of the street of t	s not, and has not overnment bodies) by ag of special need in consent; the se of the information ion."	
	"My company has taken measures and it will continue to take to been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial prinformation is not publicly as would cause substantial harm to NAME	which you had been seen these measure by other than discontractions of the seeding of the seedin	t the confidentiality ares; the information in persons (other than go overy based on a showing without my company's sewhere; and disclosurany's competitive positions of the series of t	s not, and has not overnment bodies) by ag of special need in consent; the se of the information ion."	

CBI   Name	
Address   1   0   0   0   1   1   1   1   1   1	
City         [M]S] [3]9]5]6]8]-[         State       Zip         Dun & Bradstreet Number       [1]7]-[4]7]8]-[6         EPA ID Number       [0]5]0]6]4]8         Employer ID Number       [1]7]-[1]7         Primary Standard Industrial Classification (SIC) Code       [3         Other SIC Code       [3	
Dun & Bradstreet Number       [1]7]-[4]7]8]-[6         EPA ID Number       [0]5]0]6]4]8         Employer ID Number       [1]7]-[1]7         Primary Standard Industrial Classification (SIC) Code       [3         Other SIC Code       [3	_1_1_1_
EPA ID Number       [0]5]0]6]4]8         Employer ID Number       []]]]]]         Primary Standard Industrial Classification (SIC) Code       [3         Other SIC Code       [3	0]1]4]9
Employer ID Number       []]]]]         Primary Standard Industrial Classification (SIC) Code       [3]         Other SIC Code       [3]	
0ther SIC Code	1_1_1_1
Other SIC Code	
	]4]4]3]
1.10 Company Headquarters Identification	
CBI         Name         I N G A L L S S S H I P B U I L D I N G S I I T T O N S Treet	
[P]A]S]C]A]G]O]U]L]A]_]_]_]_]_]_]_]_]_]_]]]]]	_1_1_1_1
$     \begin{bmatrix} \overline{M} \   \overline{S} \end{bmatrix}  [3]9]5]6]8][0] $ State	0]1]4]9]
Dun & Bradstreet Number	

1.11	Parent Company Identification
<u>CBI</u>	Name [L]I]T]T]O]N ] ] I N D U S T R I E S ] I N C ] ] ] ] ] ] Address [3]6 O ] N O R T H ] C R E S E N T ] D R I V E ] ] S Treet
	[B]E]V]E]R]L]Y]_]H]I]L]S]_]_]_]_]_]_]_]_]_]_]_]_]_]
1.12	Technical Contact
<u>CBI</u>	Name [P]   L   P   R   I   C   E   D   D   D   D   D   D   D   D   D
	[M]S]       [3]9]5]6]8][0]1]4]9         State       Zip         Telephone Number
1.13	This reporting year is from $[0]8$ $[8]7$ to $[0]7$ $[8]8$ $Mo.$ Year

[\_] Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year,
	provide the following information about the seller:
CBI	Name of Seller []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	(
	[_]_] [_]_]_]_]]]]]]]
	Employer ID Number
	Date of Sale
	Contact Person []]]]]]]]]]]]]]]]]]]]]]]]]]]
	Telephone Number
	`—·—·—· (—·—·—·—·——·——·——·—·—·—·—·—·—·—·—
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
<u>CBI</u>	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	· · · · · · · · · · · · · · · · · · ·
	City
	[_]_] [_]_]_]_]]]]]]]]]]
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

Classification	Quantity (kg/yr
Manufactured	
Imported	
Processed (include quantity repackaged)	30
Of that quantity manufactured or imported, report	that quantity:
In storage at the beginning of the reporting year	ar NA
For on-site use or processing	
For direct commercial distribution (including ex	xport) Νλ
In storage at the end of the reporting year	NA
Of that quantity processed, report that quantity:	
In storage at the beginning of the reporting yes	ar 2
Processed as a reactant (chemical producer)	
Processed as a formulation component (mixture processed as a formulation component	roducer)
Processed as an article component (article produ	ucer) 30
Repackaged (including export)	
In storage at the end of the reporting year	

<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

1.17 <u>CBI</u>	or a component of a mixture, prochemical. (If the mixture compeach component chemical for all	quired to report is a mixtur ormation for each component port an average percentage o	
[_]	Component Name	Supplier Name	Average % Composition by Weight (specify precision,e.g., 45% ± 0.5%)
	Polyurethane Prepolymer	Conap, Inc.	92%
	Toluene 2, 4 Diisocyanate	Conap, Inc.	8% Max
	<u> </u>	•	
			Total 100%

2.04	State the quantity of the listed substance that your facility manufactor processed during the 3 corporate fiscal years preceding the report descending order.	ctured, imp	orted n
<u>CBI</u>			
[_]	Year ending	· [ <u>0</u> ] <u>7</u> ] [	8 17 <b>Yea</b> r
	Quantity manufactured	NA	k
	Quantity imported	NΔ	k
	Quantity processed	24	— ^ k
	Year ending	Mo.	8]6 Year
	Quantity manufactured	NA	kg
	Quantity imported	NA	
	Quantity processed	0.4	kg
	Year ending	· [ <u>0]7</u> ] [	8 <u>] 5</u> ] Year
	Quantity manufactured	NA	kg
	Quantity imported		
	Quantity processed		
2.05 <u>CBI</u>	Specify the manner in which you manufactured the listed substance. (appropriate process types.	ircle all	
[_]	Continuous process		,
	Semicontinuous process		
	Batch process		
[_]	Mark (X) this box if you attach a continuation sheet.		***************************************

	types.	d the listed substance	· Circle all
<del></del>	* * * * * * * * * * * * * * * * * * * *	•••••••	
Semicontinuous proces	ss	**********	
Batch process		*****************	
			••••••
07 State your families			
$\underline{I}$ question.)	re a batch manufactus	for manufacturing or rer or batch processor	processing the lis
_1		7-000301	, do not answer th
Manufacturing capacit	у	••••••	
Processing capacity			NA kg
0 pactty	• • • • • • • • • • • • • • • • • • • •		NA kg
8 If you intend as i		·	_
volume.	rease or decrease bas	quantity of the listed y time after your curr sed upon the reporting	substance ent corporate fisc
volume.	Manufacturing	sed upon the reporting	substance ent corporate fisc year's production
volume.	Manufacturing Ouantity (kg)	y time after your curresed upon the reporting  Importing  Quantity (kg)	ent corporate fisc year's production Processing
Amount of increase	Manufacturing	Importing Quantity (kg)	ent corporate fisc year's production Processing Quantity (kg)
volume.	Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Ouantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	ent corporate fisc year's production Processing Quantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Ouantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Ouantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Ouantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Ouantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Ouantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Ouantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Ouantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Quantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Quantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Quantity (kg)
Amount of increase	Manufacturing Quantity (kg)  NA	Importing Quantity (kg)	Processing Quantity (kg)

2.09	For the three largest volume manufacturing or processing procelisted substance, specify the number of days you manufactured substance during the reporting year. Also specify the average day each process type was operated. (If only one or two operalist those.)	or processed	the list
<u>CBI</u>		Days/Year	Average Hours/Da
	Process Type #1 (The process type involving the largest quantity of the listed substance.)		
	Manufactured	NA	NA
	Processed	25	2
	Process Type #2 (The process type involving the 2nd largest quantity of the listed substance.)		
	Manufactured	NA	NA .
	Processed	NA	NA
	Process Type #3 (The process type involving the 3rd largest quantity of the listed substance.)		
•	Manufactured	NA	NA
	Processed	NA	NA
2.10 <u>CBI</u> []	State the maximum daily inventory and average monthly inventory substance that was stored on-site during the reporting year in chemical.  Maximum daily inventory	the form of	ed a bulk k
<u> </u>	Mark (X) this box if you attach a continuation sheet.	<u> </u>	

.11	Related Productive listed substituted imports	ct Types List any b bstance in concentrati ed, or processed. The	Dyproducts, coprodu	cts, or impuritie	es present wi
]	means the sour	ed, or processed. The rce from which the byp to the product (e.g.,	source of byproduc	cts. coproducts	15 manufac-
	CAS No.	Chemical Name  UK	Byproduct, Coproduct or Impurity <sup>1</sup>	Concentration (%) (specify ± % precision)  UK	Source of B products, C products, o Impurities
-					
_					
-					
	Use the follow  B = Byproduct C = Coproduct I = Impurity	ing codes to designate	e byproduct, coprod	uct, or impurity:	<del></del> :

<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

a.	b. % of Quantity Manufactured, Imported, or	c. % of Quantity Used Captively	d.
Product Types <sup>1</sup>	Processed	On-Site	Type of End-Users <sup>2</sup>
L	100	0	H = US NAVY
ΝA	NA	NA NA	NA
NA	NA	NA	NA NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
C = Catalyst/Initiator Sensitizer  D = Inhibitor/Stabiliz Antioxidant  E = Analytical reagens F = Chelator/Coagulans G = Cleanser/Detergens H = Lubricant/Friction agent I = Surfactant/Emulsis J = Flame retardant K = Coating/Binder/Add  2 Use the following code I = Industrial CM = Commercial	zer/Scavenger/  t t/Sequestrant t/Degreaser n modifier/Antiwear  fier nesive and additives es to designate the  CS = Cons	O = Photographic/Rep and additives P = Electrodeposition Q = Fuel and fuel and R = Explosive chemical S = Fragrance/Flavor T = Pollution control U = Functional fluid V = Metal alloy and W = Rheological modification X = Other (specify)  type of end-users:	on/Plating chemicals dditives cals and additives chemicals ol chemicals ds and additives additives

]	substance used during used captively on-site	the reporting year. as a percentage of each product type.	entage of the total vo entage of the total vo Also list the quanti the value listed unde (Refer to the instru	lume of listed ty of listed subs
	a.	b.	c.	ď.
	Product Types <sup>1</sup>	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Use
	L	100	0	H = US NAVY
	NA	NA	NA	NA
	NA	NA	NA NA	NA
	NA	NA .	NA	NA
	NA	NA_	NA NA	NA
	NA	NA	NA	NA NA
	agent	r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear fier	L = Moldable/Castable M = Plasticizer N = Dye/Pigment/Color O = Photographic/Reprand additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a W = Rheological modif X = Other (specify)	rant/Ink and addit rographic chemical n/Plating chemical ditives als and additives chemicals chemicals and additives
	<pre>I = Surfactant/Emulsi J = Flame retardant K = Coating/Binder/Ad  2Use the following cod</pre>			

	<b>b.</b>	_	
	-	c. Average %	d.
	<b></b>	Composition of	
Product Type <sup>1</sup>	Final Product's	Listed Substance	Type of
	Physical Form <sup>2</sup>	in Final Product	End-User
L	F4	UK	H = US NAV
NA	NA	NA	AT 2
NA	N7.72		NA
NA	NA	NA	NA
NA .	NA	NA	NA
NA	NA	NANA	NA
agent I = Surfactant/Emul J = Flame retardant K = Coating/Binder/	ent/Degreaser ion modifier/Antiwear sifier Adhesive and additive	U = Functional fluids V = Metal alloy and ac W = Rheological modifi S X = Other (specify)	chemicals chemicals and additives Iditives er
A = Gas	odes to designate the	final product's physica	l form:
	F2 = Cry F3 = Grant	stalline solid	
B = Liquid		r solid	
B = Liquid C = Aqueous solution	- 17 = 01111		
B = Liquid C = Aqueous solution D = Paste	G = Gel		
B = Liquid C = Aqueous solution	G = Gel		
B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder  3 Use the following co	G = Gel H = Oth	er (specify)	
B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder  3 Use the following con I = Industrial	G = Gel $H = Other$ odes to designate the	type of end-users:	
B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder  3 Use the following co	G = Gel $H = Other$ odes to designate the	er (specify)type of end-users:	

2.15 CBI	Circ list	le all applicable modes of transportation used to delive ed substance to off-site customers.	r bulk shipments	of the
[_]	Truc	k	••••	
		car		
		e, Vessel		
		line		
		e		
		r (specify)		
2.16 <u>CBI</u> [_]	of e	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for und use listed (i-iv).	used by your cuse under each c	ustomers ategory
	i.	Industrial Products		
		Chemical or mixture		kg/y
	ii.	Article	UK	kg/y
	***			
		Chemical or mixture		kg/y
	iii.	Article	UK	kg/y
	111.	Consumer Products	****	
		Chemical or mixture	UK -	kg/y
		Article	UK	kg/y
	iv.	<u>Other</u>		
		Distribution (excluding export)	UK	kg/y
		Export	UK	kg/y
		Quantity of substance consumed as reactant	UK	kg/y
		Unknown customer uses	UK	kg/y
[ <u>]</u> ]	Mark	(X) this box if you attach a continuation sheet.		_

SECTION	3	PROCESSOR	RAV	MATERIAL	IDENTIFICATION
---------	---	-----------	-----	----------	----------------

PART	A GENERAL DATA		
3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trace average price is the market value of the product substance.	paid for the lis des are treated a that was traded	ted substance s purchases. for the listed
	Source of Supply	Quantity (kg)	Average Pric (\$/kg)
	The listed substance was manufactured on-site.	NA	NA
	The listed substance was transferred from a different company site.	NA	NA
	The listed substance was purchased directly from a manufacturer or importer.	NA .	NA
	The listed substance was purchased from a distributor or repackager.	NA	NA
\	The listed substance was purchased from a mixture producer.	30	33
:	Truck  Railcar  Barge, Vessel  Pipeline  Other (specify)	••••••••••••••••••••••	
	Mark (X) this box if you attach a continuation sheet.		

CBI	a.	Circle all applicable containers used to transport the listed subfacility.	stance to	your
[_]		Bags	•••••	
		Boxes		
		Free standing tank cylinders		•
		Tank rail cars		
		Hopper cars		
		Tank trucks		
		Hopper trucks		
		Drums		
		Pipeline		
		Other (specify)		
	b.	If the listed substance is transported in pressurized tank cylinderars, or tank trucks, state the pressure of the tanks.		
			NA	mmHo
		Tank cylinders		
		Tank cylinders	NA	_ mmHg
		Tank cylinders	NA	_ mmHg
		Tank cylinders	NA	_ mmHg
		Tank cylinders	NA	_ mmHg
		Tank cylinders	NA	_ mmHg _ mmHg _ mmHg
		Tank cylinders	NA	_ mmHg
		Tank cylinders	NA	_ mmHg
		Tank cylinders	NA	_ mmHg
		Tank cylinders	NA	_ mmHg
		Tank cylinders	NA	_ mmHg
		Tank cylinders	NA	_ mmHg

If you obtain the lister of the mixture, the name average percent composi amount of mixture process.	e of its supplier(s tion by weight of t	) or manutacturer(s) ne listed substance	
Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % prec	Processe
Conathane EN-1554	Conap, Inc.	8	30
	-		
			•
			·
•			
		·	
	•		

<pre>BI reporting year in the for the percent composition, </pre>	rm of a class I chemical, class by weight, of the listed subs	raw material during the ss II chemical, or polymer, and stance.
~	Quantity Used (kg/yr)	% Composition by Weight of Listed Substance in Raw Material (specify $\pm$ % precision
Class I chemical	0	0
	0	0
	0	0
Class II chemical	0	0
	0	0
•	0	0
Polymer	0	0
	0	0
	Ö	0
		•

[\_] Mark (X) this box if you attach a continuation sheet.

SECTION 4	PHYSICAL/CHEMICAL	PROPERTIES

G	en	er	al	Ins	tru	cti	ons	•
_							. VIIS	

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

	A PHYSICAL/CHEMICAL D			
4.01 <u>CBI</u>	substance in the final	urity for the three majouractured, or imported, or leading the point you be	r processed. Measure t	he purity of the
		Manufacture	Import	Process
	Technical grade #1	NA purity	NA 2 purity	NA % purit
	Technical grade #2	% purity	% purity	% purit
	Technical grade #3	% purity	% purity	% purit
4.02	Submit your most recen	atity of listed substance		ed or processed.
.02	Submit your most recen substance, and for eve an MSDS that you devel version. Indicate whe	atity of listed substance that the standard stan	e manufactured, importer fety Data Sheet (MSDS) ng the listed substance	for the listed
.02	Submit your most recensubstance, and for eve an MSDS that you develversion. Indicate whe appropriate response.  Yes	tly updated Material Sary formulation containi oped and an MSDS develother at least one MSDS	fety Data Sheet (MSDS) ng the listed substance ped by a different sour has been submitted by c	for the listed  If you possesses, submit your circling the
.02	Submit your most recensubstance, and for everan MSDS that you devel version. Indicate whe appropriate response.  Yes	tly updated Material Sa ry formulation containi oped and an MSDS develo ther at least one MSDS	fety Data Sheet (MSDS) ng the listed substance ped by a different sour has been submitted by c	for the listed  If you posses  ce, submit your  circling the
4.02	Submit your most recent substance, and for ever an MSDS that you devel version. Indicate whe appropriate response.  Yes	tly updated Material Sa ry formulation containi oped and an MSDS develo ther at least one MSDS	fety Data Sheet (MSDS) ng the listed substance ped by a different sour has been submitted by co	for the listed  If you posses  ce, submit your  circling the

4.03	that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
(	Yes
4.04	
CBÎ	For each activity that uses the listed substance, circle all the applicable number(s corresponding to each physical state of the listed substance during the activity the time you import or begin to process the listed substance. Physical states for importing and processing activities are determined at manufacturing states.

the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the CBI

	Physical State					
Activity	Solid	Slurry	Liquid	Liquified Gas		
Manufacture	1	2	3		Gas	
Import	1 .		-	4	5	
Process	1	2	3	4	5	
Store	1	2	(3)	4	5	
		2	(3)	4	5	
	(1)	2	3 •	4	5	
ransport	1	2	3	4	5	
Process Store Dispose Transport	1 (1) (1)	2	<u>3</u>	4	:	

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

4.05 Particle Size — If the listed substance exists in particulate form during any of the following activities, indicate for each applicable physical state the size and the percentage distribution of the listed substance by activity. Do not include particles ≥10 microns in diameter. Measure the physical state and particle sizes for importing and processing activities at the time you import or begin to process the listed substance. Measure the physical state and particle sizes for manufacturing storage, disposal and transport activities using the final state of the product.

Physical State	-	Manufacture	Import	Process	Store	Dispose	Trongness
Dust	<1 micron	NA	NA	NA	NA	NA NA	Transport NA
	1 to <5 microns	NA	NA	NA	NA	NA	NA
	5 to <10 microns	NA	<u>NA</u>	NA NA	_NA_	NA NA	NA NA
Powder	<1 micron	NA	NA	NA	NA	NA_	NA
	1 to <5 microns	NA	NA	NA	NA	NA_	NA .
	5 to <10 microns	NA	NA	NA	NA	NA_	NA
							•
Fiber	<1 micron	NA	NA	NA	NA	NA_	NA
	1 to <5 microns	NA	NA_	NA	NA	NA	NA
	5 to <10 microns	NA	<u>N</u> A	NA	NA	NA	NA
						•	
Aerosol	<1 micron	NA NA	NA	NA	NA_	NA	NA
	1 to <5 microns	NA	NA NA	NA	NA	NA NA	NA
	5 to <10 microns	NA	NA	NA	NA_	NA	NA

<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

RT A	RATE CONSTANTS AND TRANSFORMATION PRODUCTS					
)1 I	ndicate the rate constants for the following tra	ansformat	ion proce	sses	•	
	Absorption spectrum coefficient (peak)	UK	(1/M cm)	at	UK	1
	Reaction quantum yield, 6	UK		at	UK	
	Direct photolysis rate constant, k <sub>p</sub> , at	UK	1/hr	-	UK	'
b.	Oxidation constants at 25°C:					ra(1
	For 10 <sub>2</sub> (singlet oxygen), k <sub>ox</sub>	UK				
	For RO <sub>2</sub> (peroxy radical), k <sub>ox</sub>	UK				
c.	Five-day biochemical oxygen demand, BOD,	UK				_ 1
d.	Biotransformation rate constant:	- OK				m
	For bacterial transformation in water, $k_b \cdots$	UK				1,
	Specify culture	UK				_ '
e.	Hydrolysis rate constants:		*	<del></del>		
	For base-promoted process, k <sub>B</sub>	UK				_ 1/
	For acid-promoted process, k,	UK				
	For neutral process, k <sub>N</sub>	UK				
f.	Chemical reduction rate (specify conditions)	UK				- <sup>1/</sup> -
g.	Other (such as spontaneous degradation)	UK				-

	)2 a.	Specify the half-lif	fe of the listed substa	ance in the follo	wing m	media.	
		Media		Half-life (spec			
		Groundwater -	UK				
		Atmosphere	UK				
		Surface water	UK				
		Soil	UK				
	b.	Identify the listed s life greater than 24 CAS No.	substance's known trans hours. <u>Name</u>	sformation produc  Half-life (specify units)	ts tha		
*		UK	UK	UK	in		ledia
		UK	UK	UK	- ''' . in	UK UK	
		UK	UK	UK	in	UK	
		UK	ŬK	UK	•		
		UK	UK	UK	in -	UK UK	
.03	Spec	ify the octanol-water	partition coefficient,	К	UK		050
-	Meth	od of calculation or d	etermination	••••••			<del></del>
.04	Speci	od of calculation or d	tition coefficient, K <sub>d</sub>				at 25°  _ at 25°(
05	Speci Soil Speci	ify the soil-water par type	tition coefficient, K <sub>d</sub>	••••••			at 25°(

Bioconcentration Factor	Species	Test <sup>1</sup>
UK	UK	UK
UK	UK	UK
UK	UK	UK
<sup>1</sup> Use the following codes to des	ignate the type of test:	
<pre>F = Flowthrough S = Static</pre>		
		•
,	,	
	•	
•		

Retail sales  Distribution Wholesalers  NA  Distribution Retailers  Intra-company transfer  Repackagers  Mixture producers  Article producers  Other chemical manufacturers or processors  Exporters  NA  Other (specify)  Other (specify)  Distribution Wholesalers  NA  NA  NA  NA  NA  NA  NA  Other chemical manufacturers  Other (specify)	Value (\$/yr)  NA  NA  NA  NA  NA  NA  NA  NA  NA  N
Distribution Retailers NA  Intra-company transfer NA  Repackagers NA  Mixture producers NA  Article producers NA  Other chemical manufacturers or processors NA  Exporters NA  Other (specify)	NA NA NA NA NA
Intra-company transfer  Repackagers  Mixture producers  Article producers  Other chemical manufacturers or processors  Exporters  NA  Other (specify)	NA NA NA NA
Repackagers  Mixture producers  Article producers  Other chemical manufacturers or processors  Exporters  NA  Other (specify)	NA NA NA
Mixture producers  Article producers  Other chemical manufacturers or processors  Exporters  NA  Other (specify)  Substitutes List all known and the second seco	NA NA
Article producers  Other chemical manufacturers or processors  Exporters  NA  NA  NA  Other (specify)  Substitutes List all known and the specific states and the specific states are specified as a specific states and the specified states are specified as a specified state and specified states are specified as a specified state are specified as a	NA
Article producers  Other chemical manufacturers or processors  Exporters  NA  Other (specify)  Substitutes List all known and the specific states and the specific states are specific states.	
or processors  Exporters  NA  Other (specify)  Substitutes List all known and the state of th	NA
Other (specify)  Substitutes List all known and the state of the st	NA
Substitutes List all known	NA
Substitutes List all known commercially feasible subst	
Substitutes List all known commercially feasible subst	
for the listed substance and state the cost of each substance feasible substitute is one which is economically and technin your current operation, and which results in a final performance in its end uses.	Tiule. A Commercially
Substitute	Co
UK	<u>Cost (\$/kg)</u>
UK	UK
UK	UK

#### SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

#### General Instructions:

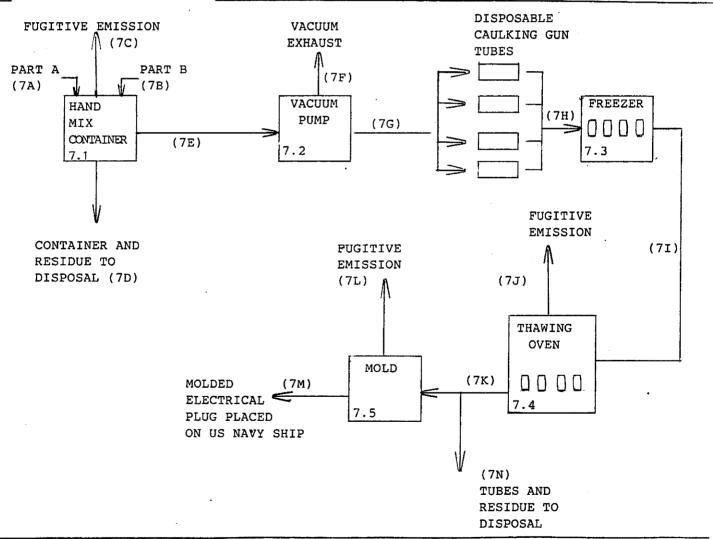
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

#### PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

Process type ..... MANUAL BATCH MOLDING OF ELECTRICAL CABLE PLUGS

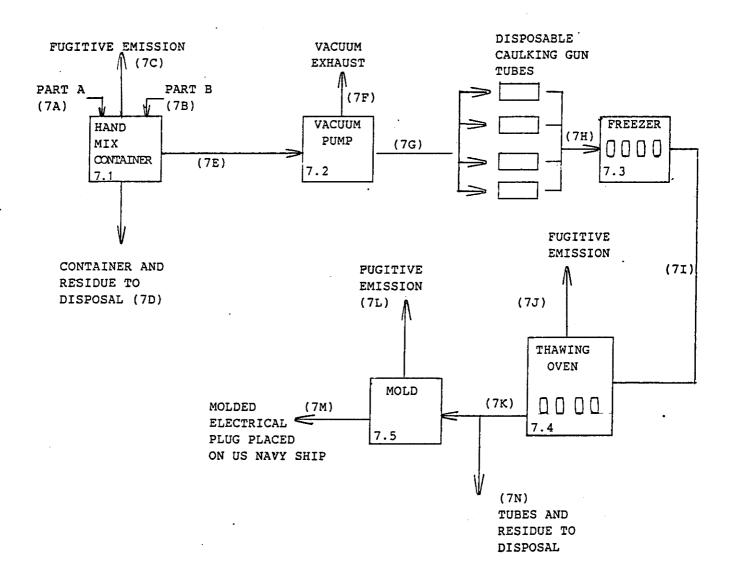


[ ] Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing a process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

Process type ...... MANUAL BATCH MOLDING OF ELECTRICAL CABLE PLUGS



<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

Process type	MANUAL BATCH MO	LDING OF ELECTRI	CAL CABLE PLUGS	•
Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vess Compos
7.1	Disposal Container (1 Gal.)	Ambient	Atmos.	Steel
7.2	Vacuum Pump	Ambient	737	Steel
7.3	Freezer	-30	Atmos.	NA
7.4	Oven	120	Atmos.	NA
7.5	Potting Mold	Ambient	Atmos.	Alumin
		·		
				·

[ ] Mark (X) this box if you attach a continuation sheet.

7.05	Describe each process stream identified in your process block flow diagram(s). If
	process block flow diagram is provided for more than one process type, photocopy th
	question and complete it separately for each process type.

CBI

[ ] Process type ...... MANUAL BATCH MOLDING OF ELECTRICAL CABLE PLUGS

ID Code	Process Stream Description	Physical State	Stream Flow (kg/yr)
7A	Part A Feed	OL	30
7в	Part B Feed	OL	16
7C	Fugitive Emission	GU	UK
<b>7</b> D	Container and Residue Disposal	so	4
_7E	Molding Compound to Vacuum	OL_	42
7 <b>F</b>	Vacuum Exhaust	GU	UK
7G	Molding Compound to Tubes	OL	38
7н	Tubes to Freezer	OL	38
<u>7I</u>	Tubes to Thaw Oven	so	38
7J	Fugitive Emissions	GU	UK
7K	Molding Compound to Mold	OL	30
<b>7</b> L	Fugitive Emissions	GU	UK
7M	Product to Ship	SO	30
7N	Tubes and Residue Disposal	SO	8

<sup>1</sup> Use the following codes to designate the physical state for each process stream:

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

7.06 CBI	this question and com	cess stream identified in your process block flow diagram ow diagram is provided for more than one process type, pholete it separately for each process type. (Refer to the ner explanation and an example.)	30 + 000 0
[_]	Process type	MANUAL BATCH MOLDING OF ELECTRICAL CABLE PLUGS	
	a. i		

а.	<b>b.</b>	c.	d.	e.
Process Stream ID Code	Known Compounds 1	Concentrations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
7A	Toluene Diisocynate	8% (E)	UK	UK
	Polyurethane Prepolymer 4.4 - Methylene - Bis	92% (E)	UK	UK
7B	(2 - Chloroaniline	30% (E)	UK	UK
	Hydroxy Terminated Polyurethane	70% (E)	UK	UK
7C	UK	UK	UK	UK
7D	Polyurethane	100% (E)	UK	UK
7E	Mixture of 7A + 7B	100% (E)	UK	UK
7F	ŲK	UK	UK	UK
_7G	Mixture of 7A + 7B	<u>100% (E)</u>	UK	UK
7H	Mixture of 7A + 7B	100% (E)	UK	UK
71	Mixture of 7A + 7B	100% (E)	ŬΚ	UK
7J	UK	UK	UK	UK
7K	Mixture of 7A + 7B	UK	UK	UK
7L	UK	UK	UK	UK
7M	_Polyurethane	<u>100% (E)</u>	UK	UK
7L	Polyurethane	100% (E)	UK	UK

## 7.06 continued below

[_]	Mark	(X)	this	рох	if	you	attach	a	continuation	sheet.		

### 7.06 (continued)

<sup>1</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive ~ Package Number	Components of Additive Package	Concentrations(% or ppm)
1	NA	NA
	NA	NA
	NA	NA
2	NA	NA
	NA	NA
	NA	NA
3	NA	NA
•	NA	NA NA
	NA	NA
4	NA	NA
	NA	NA
	NA NA	NA
5	AN	NA
•	NA	NA NA
	NA	NA

<sup>&</sup>lt;sup>2</sup>Use the following codes to designate how the concentration was determined:

A = Analytical result

E = Engineering judgement/calculation

<sup>&</sup>lt;sup>3</sup>Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

PART A	RESIDUAL	TREATMENT	PROCESS	DESCRIPTION
--------	----------	-----------	---------	-------------

In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01. CBI MANUAL BATCH MOLDING OF ELECTRICAL CABLE PLUGS

Process type ......

SOLID TO OFFSITE WASTE 8A LANDFILL CONTAINER 8.1

[\_] Mark (X) this box if you attach a continuation sheet.

_1	Process	type	•••				
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual <sup>2</sup>	Known Compounds <sup>3</sup>	Concentra- tions (% or ppm) <sup>4,5,6</sup>	Other Expected Compounds	Estimate Concen- trations (% or ppm
•		NA	so	UK	UK	UK	UK
		NA	so	UK	UK	UK .	UK
	8A	NA		UK	UK	UK	UK

## 8.05 (continued) 1 Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous <sup>2</sup>Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

### 8.05 continued below

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

## 8.05 (continued)

<sup>3</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations(% or ppm)
11	NA	NA
	NA	NA
	NA NA	NA
2	NA	NA NA
	NA NA	NA
	NA	NA
3	NA	NA
	NA	NA NA
	NA	NA NA
4	NA	NA
	NA	. NA
	NA	. NA
5	NA	NA
	NA NA	NA
	NA	NA
the following codes to	o designate how the concentration	

<sup>4</sup> U

8.05	continued	below
------	-----------	-------

[ ] Mark (X) this box if you attach a continuation sheet.

E = Engineering judgement/calculation

## 8.05 (continued)

<sup>5</sup>Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

<sup>&</sup>lt;sup>6</sup>Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code		Method	Detection Limi (± ug/l)
1	NA		NA
_2	NA		NA .
_3	NA		NA NA
4	NA		· NA
5	NA		NA
_6	NA		NA NA

[ ] Mark (X) this box if you attach a continuation sheet.

Process type									
a. Stream	b. n Waste Description	c. Management Method	d. Residual Quantities		gement dual (%)	f. Costs for Off-Site	g. Changes		
Code		Code	(kg/yr)	On-Site	Off-Site	Management (per kg)	Manageme Methods		
7D	B82	1ST	4	0	100	NA	NA		
7n	B82	1ST	8	0	100	NA	NA		
8A	B82	1D	12	0	100	\$ 0.50	NA		
	·								
_	the codes prov								

[_]		Combustion Chamber Temperature (°C)		Temp	tion of erature nitor	In Com	Residence Time In Combustion Chamber (seconds)	
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondar	
	1							
	2						<del></del>	
	3					<del>*************************************</del>		
	o, 01101	the upp	of Solid Wast ropriate resp	onse.	s been submit	ted in lieu o	of respons	
	Yes	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••••••••	••••••		
	No	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	••••••	• • • • • • • • • • • • •		
CBI	Complete the fare used on-sitreatment bloc	te to outil (	cam(s).  Air Po	llution	(by capacit in your proc	ess block or Types	residual of	
8.23 <u>CBI</u> [_]		te to outil (	cam(s).	llution	(by capacit in your proc	ess block or	residual of Data	
CBI	Incinerator	te to outil (	Air Po. Control NA	llution	(by capacit in your proc	Types Emissions Availa NA	residual of Data	
CBI	Incinerator  1 2 3 Indicate by circl Yes	if Office o	Air Po	llution Device  survey has	been submit	Types Emissions Availa NA NA NA ted in lieu o	of Data ble  f response	

# PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01 Mark (X) the appropriate column to indicate whether your company maintains records o the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for furthe

Data Element	Data are Ma Hourly Workers	intained for: Salaried Workers	Year in Which Data Collection Began	Number of Years Records Are Maintaine
Date of hire	X	X	1950	20
Age at hire	X	x	1950	20
Work history of individual before employment at your facility	х	Х	1950	20
Sex	X	Х	1950	20
Race	X	X	1950	20
Job titles	X	х	1950	20
Start date for each job title	X	х	1950	20
End date for each job title	х .	X	1950	20
Work area industrial hygiene monitoring data	NA	NA	NA	NA
Personal employee monitoring data	NA	NA	NA	NA
Employee medical history	X	X	1950	20
Employee smoking history	X	X	1950	
Accident history	X	X	1950	20
Retirement date	X	X	1950	20
Termination date	X	X	1950	20
Vital status of retirees	NA	MA	NA	NA
Cause of death data	NA	NA	ÑA	NA

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

9.02 CBI	In accordance with th in which you engage.	e instructions, complete	the following ta	able for e	ach activity
[_]	<b>a</b> .	b:	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Vorker-Hours
	Manufacture of the listed substance	Enclosed			
		Controlled Release			
		0pen			
	On-site use as reactant	Enclosed			
		Controlled Release	-		
		0pen			
	On-site use as nonreactant	Enclosed			
· ·		Controlled Release			
		0pen			
	On-site preparation of products	Enclosed			
	or products	Controlled Release			
		0pen	30	2	50
	•				
				•	
					•

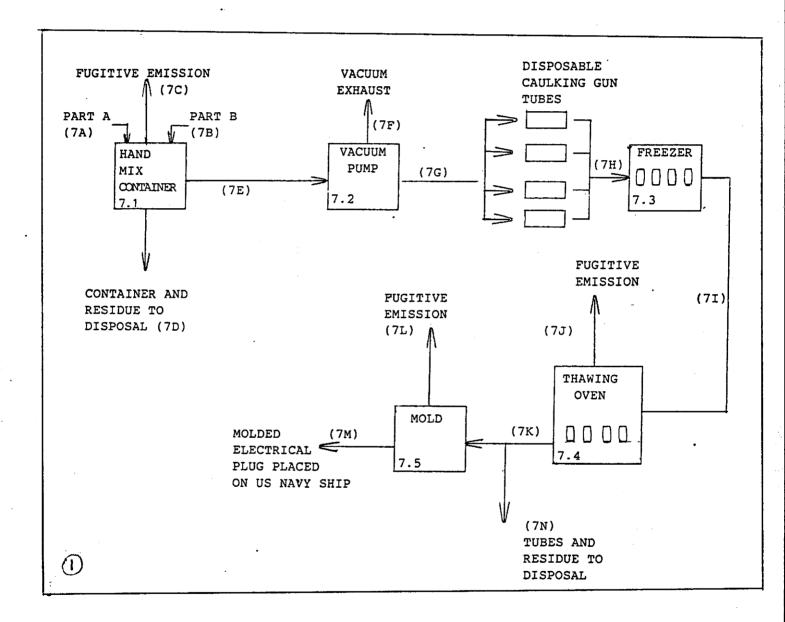
<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

listed substance.	job title for each labor category at your facility that ho may potentially come in contact with or be exposed to
1	
Labor Category	Description
<b>A</b>	Descriptive Job Title ELECTRICIAN
В	
С	
D	
E	
F	
G	
Ħ	
ı .	
J	
•	

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

[ ] Process type ..... MANUAL BATCH MOLDING OF ELECTRIC CABLE PLUGS



<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

9.05 CBI	Describe the various may potentially come additional areas not 7.02. Photocopy this	work area(s) shown in question 9.04 that encompass workers whin contact with or be exposed to the listed substance. Add a shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
[_]		MANUAL BATCH MOLDING OF ELECTRIC CABLE PLUGS
	Work Area ID	Description of Work Areas and Worker Activities
	1	ELECTRIC SHOP MOLDING ROOM
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	·
	10	
	-	
		·
<u> </u>		

.06 BI	come in cont	e following tab category at you tact with or be	exposed to th	n encomp	asses worke	rs who may por	.05, and for tentially nis question		
<u>-</u> ,		- It separately	ror each proc	ess type	and work a	rea.	120012		
'	Process type MANUAL BATCH MOLDING OF ELECTRIC CABLE PLUGS  Work area 1								
	Work area		• • • • • • • • • • • • • • • • • • • •						
	Labor <u>Category</u>	Number of Workers Exposed	Mode of Exposu (e.g., dir skin conta	ect	Physical State of Listed Substance <sup>1</sup>	Average Length of Exposure Per Day <sup>2</sup>	Number o Days per Year Exposed		
	A	2	Inhalatio	on	OL	2	25		
	·								
			<del></del>	<del></del>					
				<del></del> .					
	GC = Gas (c	condensible at	ambient	SY = S	Sludge or sl	urry	ostance at		
	$GU = Gas(\iota$	rature and pres incondensible a	t ambient	$ AL = I \\ OL = I $	Aqueous liqu Organic liqu	id id			
	includ	rature and pres les fumes, vapo	sure; rs, etc.)	IL = 1	Immiscible l (specify pha	iquid			
	SO = Solid			9	90% water, 1	0% toluene)			
	'Use the foll	lowing codes to	designate ave	erage le	ngth of expo	sure per day:			
	A = 15 minut B = Greater	es or less than 15 minute	s. but not	D = G1	reater than	2 hours, but n	iot		
	<pre>A = 15 minutes or less B = Greater than 15 minutes, but not     exceeding 1 hour C = Greater than one hour, but not     exceeding 2 hours</pre>			exceeding 4 hours  E = Greater than 4 hours, but not exceeding 8 hours  F = Greater than 8 hours					

9.07	For each labor category represented in question 9.06, indicate the 8-hour Time Weighted Average (TWA) exposure levels and the 15-minute peak exposure levels. Photocopy this question and complete it separately for each process type and work area.						
CBI							
	Process type MANUAL BATCH MOLDING OF ELECTRIC CABLE PLUGS						
	Work area						
,	Labor Category	8-hour TWA Exposure Level (ppm, mg/m <sup>3</sup> , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)				
	A	ик	UK				
•							
			· .				
			•				
	,						
		•	•				
			·				
		•					

08 If you monitor work	er exposu	re to the li	isted substa	ance, comp	lete the fo	ollowing tabl
Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who	Analyzed In-House _(Y/N)	Number of Years Record Maintained
Personal breathing zone	NA	NA	NA	NA	NA	
General work area (air)	NA	NA	NA NA	NA	NA NA	NA NA
Wipe samples	NA	NA	NA	NA		
Adhesive patches	NA	NA	NA	NA NA	NA NA	NA
Blood samples	NA	NA	NA	NA NA	NA	NA
Urine samples	NA	NA	NA	NA NA	NA .	NA
Respiratory samples	NA	NA	NA		NA	NA
Allergy tests	NA	NA	NA	NA	NA .	NA
Other (specify)	•		IVA	NA	NA .	NA
Other (specific)	NA	NA	NA	NA	NA	NA
Other (specify)	NA	NA	NA	NA	NA	NA
Other (specify)						
	NA	NA	NA	NA	NA	NA

<sup>&</sup>lt;sup>1</sup>Use the following codes to designate who takes the monitoring samples:

A = Plant industrial hygienist

B = Insurance carrier

C = OSHA consultant

D = Other (specify)

<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

[_]	Sample Type	logy used for each t			
	NA	<u>=</u>	ampling and Analy	tical Methodo	logy
	NA				
	NA		NA		
	NA		NA		
	NA NA		NA		
	NA NA		NA		
)			NA	·	•
]	Equipment Type 1	onal and/or ambient on information for e	· · · · · · · · · · · · · · · · · · ·	Averaging	substance,
	NA NA	NA	Manufacturer NA	Time (hr)	Model Number
	NA	NA		NA NA	NA
	NA	NA	NA	NA	. NA
	NA	NA NA	NA	NA NA	NA
	NA		NA	NA	NA
		NA	NA	· NA	NA
	Use the following co A = Passive dosimete B = Detector tube C = Charcoal filtrat D = Other (specify) Use the following co E = Stationary monite G = Stationary monite	ion tube with pump  des to designate amb  ors located within w	pient air monitori ork area acility		
1	H = Mobile monitoring I = Other (specify) Use the following cook A = ppm				

<u>CBI</u>	Test Description		Frequence (weekly, monthly, )	y vearly, etc.)
	NA		NA NA	33337 01017
4	NA		NA	
	NA		NA	
-	NA .		NA	
	` NA	<del></del>	NA	
	•			
-				
	•			
		·		
		•		

GS	ICAL CABLE PLUC	MOLDING OF ELECTR	MANUAL BATCH	Process type	[_]
	•	***************			
Year Upgrade	Upgraded (Y/N)	Year Installed	Used (Y/N)	Engineering Controls Ventilation:	
NA NA	NA NA	NA 1969	N Y	Local exhaust General dilution	
					7

N

NA

NA

NA

NA

NA

ΝA

ΝA

NA

NA

NA

Mechanical loading or packaging equipment

Other (specify)

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

	Describe all equipment or process modifications you have prior to the reporting year that have resulted in a reduthe listed substance. For each equipment or process mod the percentage reduction in exposure that resulted. Pho complete it separately for each process type and work ar	ification dr worker exposure
	Process type MANUAL BATCH MOLDING OF ELECTRICA	AL CABLE PLUGS
	Work area	
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
٠.	NA NA	NA
-	NA	NA
-	NA	NA ·
	NA	NA
	•	

PART	D PERSONAL PROTECTIVE AND SAFETY EQUIPMENT	
9.14 <u>CBI</u>	Describe the personal protective and safety equin each work area in order to reduce or elimin substance. Photocopy this question and compleand work area.	quipment that your workers wear or use tate their exposure to the listed te it separately for each process type
[_]	Process type MANUAL BATCH MOLDING OF	ELECTRICALCABLE PLUGS
	Work area	• • • • • • • • • • • • • • • • • • • •
		Vear or
	Equipment Types	Use (Y/N)
	Respirators	N
	Safety goggles/glasses	У .
	Face shillds	N
	Coveralls	N
	Bib aprons	N
	Chemical-resistant gloves	Y
	Other (specify)	

$\left[ \begin{array}{c} - \end{array}  ight]$ Mark (X) this box if you attach a continuation sho	et.
---	-----

[_]	Process typ	MANUAL 1	BATCH MOLDING C	F ELECTRIC	CAL CABLE PLU	GS
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test <sup>2</sup>	Frequency o Fit Tests (per year)
		NA	NA	NA	NA	NA
	A = Daily B = Weekly C = Monthly D = Once a E = Other (	year specify)				
	A = Daily B = Weekly C = Monthly D = Once a E = Other (  2 Use the fol	year specify) lowing codes to design			·	
	A = Daily B = Weekly C = Monthly D = Once a E = Other (  2 Use the fol	year specify) lowing codes to design			· ·	
	A = Daily B = Weekly C = Monthly D = Once a E = Other (  2 Use the fol	year specify) lowing codes to design			<b>:</b>	
	A = Daily B = Weekly C = Monthly D = Once a E = Other (  2 Use the fol	year specify) lowing codes to design				
	A = Daily B = Weekly C = Monthly D = Once a E = Other (  2 Use the fol	year specify) lowing codes to design			•	

9.19 <u>CBI</u>	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only t authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.					
1	Process type MAN	UAL BATCH MOLDING	G OF ELECTRIC	CARLE PLUCS		
	Work area	• • • • • • • • • • • • • • • • • • • •		1		
	NA					
	NA NA					
	NA NA					
	NA NA					
. 20	Indicate (X) how often you leaks or spills of the list separately for each process.  Process type MANUA	ss type and work AL BATCH MOLDING	area.  OF ELECTRIC C	rs question a	lean up routine nd complete it	
.20	Indicate (X) how often you leaks or spills of the list separately for each process.  Process type MANUA	SS type and work AL BATCH MOLDING	OF ELECTRIC C	ABLE PLUGS	nd complete it	
	Indicate (X) how often you leaks or spills of the list separately for each process.  Process type MANUA  Work area	ss type and work AL BATCH MOLDING	area.  OF ELECTRIC C	ABLE PLUGS	More Than 4	
	Indicate (X) how often you leaks or spills of the list separately for each process.  Process type MANUA  Work area	SS type and work  AL BATCH MOLDING  Less Than	of ELECTRIC C	ABLE PLUGS  1  3-4 Times	More Than 4	
	Indicate (X) how often you leaks or spills of the list separately for each process.  Process type MANUA  Work area  Housekeeping Tasks  Sweeping  Vacuuming	Less Than Once Per Day	of ELECTRIC C	ABLE PLUGS  1  3-4 Times	More Than 4	
	Indicate (X) how often you leaks or spills of the list separately for each procest Process type MANUAL Work area	Less Than Once Per Day	of ELECTRIC C	ABLE PLUGS  1  3-4 Times	nd complete it	
	Indicate (X) how often you leaks or spills of the list separately for each process.  Process type MANUA  Work area  Housekeeping Tasks  Sweeping  Vacuuming	Less Than Once Per Day X	of ELECTRIC C	ABLE PLUGS  1  3-4 Times	More Than 4	
	Indicate (X) how often you leaks or spills of the list separately for each procest Process type MANUAL Work area	Less Than Once Per Day X	of ELECTRIC C	ABLE PLUGS  1  3-4 Times	More Than 4	
	Indicate (X) how often you leaks or spills of the list separately for each procest Process type MANUAL Work area	Less Than Once Per Day X	of ELECTRIC C	ABLE PLUGS  1  3-4 Times	More Than 4	
	Indicate (X) how often you leaks or spills of the list separately for each procest Process type MANUAL Work area	Less Than Once Per Day X	of ELECTRIC C	ABLE PLUGS  1  3-4 Times	More Than 4	

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No 2
	Emergency exposure
	Yes 1
	No 2
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes 1
	No 2
	If yes, where are copies of the plan maintained?
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist 1
	Insurance carrier 2
	OSHA consultant 3
•	Other (specify) 4
(_)	Mark (X) this box if you attach a continuation sheet.

## SECTION 10 ENVIRONMENTAL RELEASE

#### General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A GENERAL INFORMATION				
10.01	Where is your facility located? Circle all appropriate responses.			
CBI				
[_]	Industrial area			
	Urban area			
	Residential area			
	Agricultural area 4			
	Rural area 5			
	Adjacent to a park or a recreational area 6			
	Within 1 mile of a navigable waterway			
	Within 1 mile of a school, university, hospital, or nursing home facility 8			
	Within 1 mile of a non-navigable waterway 9			
	Other (specify)10			

	Specify the exact location of yo is located) in terms of latitude (UTM) coordinates.	ur facility (from ce and longitude or Ur	entral point who	ere process uni erse Mercader
	Latitude			21 , 03
	Longitude	•••••••	88 .	
	UTM coordinates Zone			
10.03	If you monitor meteorological conthe following information.			
	Average annual precipitation		, , , , , , , , , , , , , , , , , , ,	, provide
	Predominant wind direction	•••••		inches/yea
10.04	Indicate the depth to groundwater  Depth to groundwater	below your facility	•	
10.05	For each on-site continue.			
	For each on-site activity listed, listed substance to the environmen Y, N, and NA.)	in the same same same same same same same sam	istructions for	a definition o
	For each on-site activity listed, listed substance to the environmen Y, N, and NA.)  On-Site Activity	in the same same same same same same same sam	ronmental Relea	a definition o
<u></u> 1	1, N, and NA.)	Envi	istructions for	a definition o
:== []] : :	On-Site Activity  Manufacturing  Importing	Envi	ronmental Relea	a definition o
	On-Site Activity  Manufacturing  Importing  Processing	Envi Air NA	ronmental Relea	a definition o
	On-Site Activity  Manufacturing  Importing  Processing  Otherwise used	Envi Air NA	ronmental Relea  Vater  NA	a definition o
:	On-Site Activity  Manufacturing  Importing  Processing Otherwise used  Product or residual storage	Air NA NA Y	ronmental Relea Water NA NA	a definition o
	On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage  Disposal	Air NA NA Y NA	ronmental Relea Water NA NA NA NA	a definition o
	On-Site Activity  Manufacturing  Importing  Processing Otherwise used  Product or residual storage	Air NA NA Y NA NA NA	ronmental Relea Vater NA NA NA NA NA	a definition o
	On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage  Disposal	Air NA NA Y NA NA NA NA NA NA	ronmental Relea Water NA	a definition o
	On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage  Disposal	Air NA NA Y NA NA NA NA NA NA	ronmental Relea Water NA	a definition o

10.08 <u>CBI</u>	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.				
[_]	Process type	MANUAL BATCH MOLDING OF ELECTRICAL CABLE	PLUGS		
	Stream ID Code	Control Technology	Percent Efficiency		
	7A	NA	NA		
	7B	NA NA	NA		
	7c	NA NA	NA		
	7D	NA NA	NA NA		
	7E	NA	NA NA		
	7F	NA NA	. NA		
	7G	NA	NA		
	7н	NA .	NA		
	71	NA	. NA		
	7J	NA	NA NA		
	. 7L	NA NA	NA NA		
-	<b>7</b> M	NA NA	NA		

NA

NA

7N

 $<sup>[\ \ ]</sup>$  Mark (X) this box if you attach a continuation sheet.

10.09 <u>CBI</u>	Point Source Emissions Identify each emission point source containing the listed substance in terms of a Stream ID Code as identified in your process block or residual treatment block flow diagram(s), and provide a description of each point source. Do not include raw material and product storage vents, or fugitive emission sources (e.g., equipment leaks). Photocopy this question and complete it separately							
	for each pr	ocess .type.	, and complete it separately					
	Process typ Point Source							
	ID Code		Description of Emission Point Source					
	NA		NA					
	NA		NA					
	NA		NA					
	NA		NA					
,	NA	-	. NA					
,	NA		NA					
	NA		NA					
•	NA	-	NA					
	NA	-	NA					
	NÁ	-	NA					
	•		·					
		•	•					

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G = Gas; V = Vapor; P = Particulate; A = Aerosol; O = Other (specify)

<sup>&</sup>lt;sup>2</sup>Frequency of emission at any level of emission

<sup>&</sup>lt;sup>3</sup>Duration of emission at any level of emission

 $<sup>^4</sup>$ Average Emission Factor — Provide estimated ( $\pm$  25 percent) emission factor (kg of emission per kg of production of listed substance)

	NA NA NA NA NA					 	Тур
	NA NA						
	NA NA						
	NA .		•				
_							
	NA						
	NA						
	NA				-		
	NA					 	-
	NA					 	
	NA	-				 	
² W: ³ U: H	idth of	attached o	or adjacent r adjacent b odes to desi	ouilding	ype:		

10.12	If the listed substance is emitted in distribution for each Point Source ID Photocopy this question and complete in	particulate form, indicate the particle siz
CBI	described and complete 1	code identified in question 10.09. t separately for each emission point source
[_]	Point source ID code	NA NA
	Size Range (microns)	Mass Fraction ( $\% \pm \%$ precision)
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 5.00	
		Total = 100%
	•	
	,	
,		· · · · · · · · · · · · · · · · · · ·

Equipment Leaks Complete the following table by providing the number of equipmer types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separatel
 Process type MANUAL DATES

Percentage of time per year that the listed substance is exposed to this process type .....

• b F =				y Weight   cess Strea	
than 5%	5-10%	11-25%	<u>26-</u> 75%	76-99%	Greater than 99
NA NA	NA NA	NA NA	NA NA	NA	NA
NA NA	NA NA	NA	NA	NA	NA NA
NA	NA	NA	NA NA	NA NA	NA NA
NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
NA	<u>ŅA</u>	NA	NA	NA	NA
NA NA	NA	NA	NA	NA	NA_
NA NA	NA	NA	NA	<u>NA</u>	NA
NA	NA_	NA	. NA	NA	NA
	NA NA NA NA NA NA NA NA NA	NA N	NA         NA         NA           NA         NA         NA	NA         NA         NA         NA           NA         NA         NA         NA	NA         NA         NA         NA         NA           NA         NA         NA         NA         NA

<sup>&</sup>lt;sup>1</sup>List the number of pump and compressor seals, rather than the number of pumps or compressors

10.13 continued on next page

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

10.13	(continued)								
	<sup>2</sup> If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) the with a "B" and/or an "S", respectively								
	<sup>3</sup> Conditions existing in the valve during normal operation <sup>4</sup> Report all pressure relief devices in service, including those equipped with control devices								
	<sup>5</sup> Lines closed during norm operations								
10.14 <u>CBI</u>	Pressure Relief Devices w pressure relief devices in devices in service are con enter "None" under column	ith Controls Compl dentified in 10.13 to ntrolled. If a press c.	ete the following indicate which pure relief device	table for those ressure relief is not controlled,					
	a. Number of Pressure Relief Devices	b. Percent Chemicalin Vessel <sup>1</sup>	<b>c.</b>	d. Estimated					
	NA	in vessel	Control Device	Control Efficienc					
	NA								
•	NA .								
•	NA								
. •	NA								
-	NA								
	NA								
_	NA								
_	NA								
<sup>2</sup> Tl	efer to the table in quest eading entitled "Number of ubstance" (e.g., <5%, 5-10) he EPA assigns a control eith rupture discs under nofficiency of 98 percent founditions	officiency of 100 per	cent for equipmen	t leaks controlled					

			N	'A	
	Leak Detection Concentration	<u> </u>			
	(ppm or mg/m³)  Measured at Inches	Detection	Frequency of Leak Detection	Repairs Initiated (days after	Repairs Completed
Equipment Type	from Source	<u>Device</u> <sup>1</sup>	(per year)	detection)	initiated)
Pump seals					
Packed					
Mechanical					
Double mechanical					
Compressor seals					
Flanges					
Valves					
Gas	•	•			
Liquid					
Pressure relief devices (gas or vapor only)					
Sample connections					
Gas					
Liquid					
Open-ended lines					
Gas					
Liquid					
•		***			
<sup>1</sup> Use the following c	odes to designate of	detection de	 vice:		
	anic vapor analyze: onitoring	•			

Mark (X)	•	Floating	atment block Composition	Throughput	Vessel		Vessel Inner	Vessel	Operat ing Vessel	- Vessel	Design	Vent	Control	Basis
) th	Vessel Type <sup>1</sup>	Roof Seals <sup>2</sup>	of Stored	(liters per year)	Rate		Diameter	Height	Volume	<b>Emission</b>	Flow	Diameter	Efficiency	for
his				<u>pa jani</u>	(81-11)	(marr)	(111)	(m)_	_(1)	Controls <sup>4</sup>	Kate	(cm)	<u>(X)</u>	Estimate <sup>6</sup>
ьох	NA_			•										*
.بــ	NA													
f you	NA									4				
ou a										-			<del></del>	
~ I												******		
tach	NA				· <del></del>	· · · · · · · · · · · · · · · · · · ·								
a C	<u>NA</u>			····			-							
on t	NA				•									
ontinuation sheet.	 F CIF SINCIF SINCIF SINCIF SINCIF SINCIF SINCIF SINCIP SIN	Fixed ro Contact Nonconta External Pressure Horizont Undergro	internal floct internal floating rocessel (indical)	ating roof floating roof of icate pressur	f re rating	<b>(</b> )	<sup>2</sup> Use MS1 MS2 MS2R LM1 LM2 LMW VM1 VM2 VM1	the fol  = Mech = Shoe  = Rim- = Liqu = Rim- = Weat = Vapo = Rim- = Weat	llowing hanical mounted id-mounted her shi mounted her shi her shi	codes to o shoe, print d secondar l, secondar ted resili shield eld ed resilie secondary	lesignat mary y y ent fil	e floating	g roof seals	
			ting roofs	uie 112(e) 2(	us carice.	TICIUME	um total	. VOIA(1	re orka	nic conten	tın par	renunesis		
	_		rate the emi:	ssion control	l device	was design	ned to han	dle (sp	ecify f	low rate ∪	nits)			
			ng codes to							20w rate o	шсэ			•
	C = Ca	lculations		-					•					

PART E NON-ROUTINE RELEA	ACEC
--------------------------	------

10.23	Indicate the date and time was stopped. If there wer list all releases.	when the release occurred and e more than six releases, atta	when the release ceased or ch a continuation sheet and

Release	Date Started	Time (am/pm)	Date Stopped	Time
1	NA NA			(am/pm)
2	NA	·		
3	NA			
4	_ NA			
5	NÄ	,		
6	_ NA			

10.24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitatio
			<del></del>		
3					
4				•	
5					
6					
			<del></del>		

[_]	Mark	(X)	this	box	if	you	attach	a	continuation sheet.	
-----	------	-----	------	-----	----	-----	--------	---	---------------------	--

Inhalation:

CONAPINC. 1405 Buffalo St. Olean, New York 14760 716/372-9650

MATERIAL SAFETY DATA SHEET Note: This form is to be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Blank spaces are not permitted. Data:5/25/89 Trade Name: Conathane EN-1554 Part A Chemical Name, common name: Complex Mixture; Polyurethane Prepolymer ACGIH(TLV) OSHA(PEL) Other CAS No. % Chemical Names Toluene 2,4 Diisocyanate 584-84-9 \<8% .005ppm TWA .005ppm TWA .02ppm STEL ND Material may present a dust hazard if cut, ground or machined after curing. ISpecific Gravity (H2O=1) 1.06 ND Boiling Point !Vapor Density (air=1) ND Vapor Pressure, mm Hg ND !Evaporation rate (Ether=1) ND Melting Pt./Range ND Solubility in Water: REACTS! Physical State: LIQUID Percent volatile by volume: Negligible Appearance and Odor: Liquid; For TDI Sharp pungent (odor threshold greater than TLV) Flash Point, F (Method): > 260 F PMCC LEL ND UEL ND Flammable Limits ND Extinguishing Materials: -XX-Carbon Dioxide -XX-Dry Chemical -XX-Water Spray -ND-Other: -XX-Foam Special Firefighting Procedures/Unusual Fire or Explosion Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. No skin surface should be exposed. During a fire TDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. At temperatures greater than 350 F TDI forms carbodiimides with the release of CO2 which can cause pressure build-up\_\_\_ in closed containers. Explosive rupture is possible. Therefore, use cold water to cool fire-exposed containers. ACUTE TOXICITY (Routes of entry)

LC50.(4 hr.): Range 16-50ppm for 1-4 hr (Rat) on TDI. TDI

vapors or mist at concentrations above the TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack. Exposure well above the TLV may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in the lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms (e.g. fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure.

Ingestion:

ORAL,LD50 > 5800 mg/kg (Rats). Can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Eye Contact:

Strongly irritating (Rabbits) OECD Guidelines. Liquid, aerosols or vapors are severely irritating and can cause pain, tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. however, damage is usually reversible.

Skin Contact:

Skin sensitizer in guinea pigs. One study with guinea pigs reported that repeated skin contact with TDI caused respiratory sensitization. Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering. Cured material is difficult to remove.

Skin Absorption:

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CHRONIC TOXICITY

Carcinogenicity:

--X-Yes:

--X---NTP

--X---IARC

----Federal OSHA

In a DRAFT of a lifetime bioassay, the National Toxicology

Program reported that TDI caused an increase in the number

of tumors in exposed rats over those counted in non-exposed

rats. The TDI was administered by gavage where TDI was

introduced into the stomach through a tube. In lifetime

inhalation studies conducted by Hazelton Labs for the

International Isocyanate Institute, TDI did NOT demonstrate

carcinogenic activity in rats or mice.

Target Organ Affected:

No specific information available.

Effects of Overexposure:

### Inhalation:

Inhalation of TDI vapors at concentrations above allowable limits can produce irritation of the mucous membranes in the respiratory tract resulting in running nose, sore throat, productive cough and a reduction in lung function (breathing obstruction). As a result of previous repeated overexposures or a single large dose, certain individuals may develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Another type of response is hyperreactivity or hypersensitivity, in which persons, (as a result of a previous repeated overexposure or large single dose), can respond to small TDI concentrations at levels well below the .02ppm. Symptoms could be immediate or delayed and include chest tightness, wheezing, cough, shortness of breath or asthmatic attack. Hypersensitivity pneumonitis (with similar respiratory symptoms and fever which has been delayed) has also been reported. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Chronic overexposure to isocyanate has also been reported to cause lung damage (including decrease in lung function) which may be permanent. Sensitization can either be temporary or permanent.

### Eyes:

Liquid, vapors or aerosols are severely irritating to the eyes and can cause tears. Prolonged vapor contact may cause conjunctivitis. Corneal injury can occur which can be slow to heal; however damage is usually reversible.

TDI reacts with skin protein and tissue moisture and can cause localized irritation as well as discoloration. Prolonged contact could produce reddening, swelling, or blistering and, in some individuals, skin sensitization resulting in dermatitis. Once sensitized a individual can develop recurring symptoms as a result of exposure to vapor.

#### Ingestion:

Ingestion could result in irritation and some corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Medical Conditions Aggravated By Exposure
Asthma, other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity), skin allergies, eczema.

Do 200

FIRST AID: EMERGENCY PROCEDURES

Eye Contact:

Flush with clean, lukewarm water (low pressure) for at least 15 minutes, occasionally lifting eyelids, and obtain medical attention. Refer individual to an ophthalmologist for immediate follow-up.

Skin Contact:

Remove contaminated clothing. Wash effected areas thoroughly with soap or tincture of green soap and water. Wash contaminated clothing thoroughly before reuse. For severe exposures, get under safety shower, remove clothing under shower, get medical attention, and consult physician. Inhalation:

Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic-type symptoms may develop and be immediate or delayed up to several hours. Consult physician.

Ingested:

Do not induce vomiting. Give 12 fl. oz. of milk or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Consult physician.

Recommendations to Physician:

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapors have produced reversible corneal epithelial edema impairing vision. This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. There is no specific antidote for ingestion treat symptomatically. Inducing vomiting is contraindicated because of the irritating nature of this compound. TDI is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate.

Stability: --XX-Stable -NA--(Instable

Stability: --XX-Stable -NA--Unstable Conditions to Avoid: Temperatures higher than recommended in product literature.

Incompatibility (materials to avoid):

Water, short chain alcohols, amines

Hazardous Decomposition Products

By heat and fire: carbon dioxide, carbon monoxide, oxides of nitrogen and traces of hydrogen cyanide, TDI.

Hazardous Polymerization: NA-May Occur X-Will not occur

Conditions to avoid:

ND

Steps to be taken if material is released or spilled: Consult section VIII for proper protective equipment. ACRUA "IELECUPIER 250 .

Cover the spill with sawdust, vermiculite, Fuller's earth or other absorbent material. Pour decontamination solution over the spill area and allow to react for at least 10 minutes. Collect the material in open top containers and add additional amounts of decontamination solution. Remove containers to a safe place, cover loosely, and allow to stand for 24 to 48 hours. Wash down spill area with decontamination solutions. Decontamination solutions: non-ionic surfactant Union Carbide's Tergitol TMN-10(20%) and water (80%); or concentrated ammonia (3-8%), detergent (2%), and water (90%). During spill clean-up, a self contained breathing apparatus or air line respirator and protective clothing must be worn. (See section VIII). Reportable Quantity CERCLA: 1001bs

Waste Disposal Method:

Dispose according to any Local, State and Federal Regulations.

Respiratory Protection:

A positive pressure air-supplied respirator is required whenever TDI concentrations exceed the Short-Term Exposure or Ceiling Limit of .02ppm or exceed the 8 hour Time Weighted Average TLV of 0.005 ppm. An air supplied respirator must also be worn during spray application, even if exhaust ventilation is used. For non-spray, short-term(less than 1 hour) situations where concentrations are near the TLV, a full face, air-purifying respirator equipped with organic cartridges or canisters can be used. However, TDI has poor warning properties since the odor at which TDI can be smelled is substantially higher than the 0.02 ppm. Therefore, proper fit and timely replacement of filter elements must be ensured. Observe OSHA regulations for respirator use. (29CFR 1910.134).

Local exhaust should be used to maintain levels below the TLV whenever TDI containing material is handled, processed, or spray-applied. At normal room temperatures (70 F) TDI levels quickly exceed the TLV unless properly ventilated. Standard reference sources regarding industrial ventilation (e.g., ACGIH INDUSTRIAL VENTILATION) should be consulted for guidance about adequate ventilation.

Protective Gloves: Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.

Eye Protection:
Liquid chemical goggles or full face shield
should be worn. Contact lenses should not be worn.
Other Protective Clothing or Equipment: Safety showers and

eyewash stations should be available. Cover as much of exposed skin as possible with appropriate clothing.

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Work Practices, hygienic practices Educate and train employees in safe use of product. Follow

Handling and Storage:

Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspect.

Avoid contact with eyes and skin. Do not breathe the

SARA Title III Requirements:

TDI is on the Extremely Hazardous Substance.

|Chemical Name Section: 302 CERCLA Toluene 2,4 Diisocyanate TPQ-500 LBS | RQ-100 LBS | YES

T.S.C.A. Status: On Inventory

Name(print):George C. Karpin !This formulation is subject Signature: !to change without notice. Title:Toxicological Coordinator!In case of accident use the Date of last revision5/25/89!phone number provided. 

To the best of our knowledge, the information contained herein is accurate and meets all state and federal guidelines. However, CONAP INC. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of the suitability of any material is the sole responsibility of the user.

ND=Not Determined

NA=Not Applicable

5/55/5 Approved: - Lot William